

#8132 Store at -20°C	17-AAG		Cell Signaling TECHNOLOGY®
	500 µg	Orders:	877-616-CELL (2355) orders@cellsignal.com
		Support:	877-678-TECH (8324)
		Web:	info@cellsignal.com cellsignal.com
3 Trask Lane Danvers Massachusetts 01923 USA			

For Research Use Only. Not for Use in Diagnostic Procedures.

Background	17-AAG is a semi-synthetic derivative of geldanamycin, demonstrating greater stability than its parent compound (1). It binds specifically to heat shock protein HSP90 in a manner similar to geldanamycin, but with weaker binding (1). Through specific binding with HSP90, 17-AAG has been shown to decrease levels of many proteins including androgen receptor (AR), HER2, and Akt, while increasing levels of HSP90 in prostate cancer cell lines (2). 17-AAG binds to a conserved pocket in the HSP90 family of chaperone proteins and this occupation causes the degradation of several signaling proteins (2).
Molecular Formula	C ₃₁ H ₄₃ N ₃ O ₈
Molecular Weight	585.7 g/mol
Purity	>98%
CAS	75747-14-7
Solubility	Soluble in DMSO at 50mg/ml or EtOH at 5mg/ml.
Storage	Store lyophilized or in solution at -20°C, desiccated. Protect from light. In lyophilized form, the chemical is stable for 24 months. Once in solution, use within 3 months to prevent loss of potency. Aliquot to avoid multiple freeze/thaw cycles.
Directions for Use:	17-AAG is supplied as a lyophilized powder. For a 1 mM stock, reconstitute the 500 µg in 853.7 µl DMSO. Working concentrations and length of treatment can vary depending on the desired effect, but it is typically used at 0.1-1 µM for 4-24 hours. Soluble in DMSO at 150 mg/mL; soluble in ethanol at 5 mg/mL. Maximum solubility in plain water estimated to be about 20-50 µM.
Background References	1. Schulte, T.W. and Neckers, L.M. (1998) <i>Cancer Chemother Pharmacol</i> 42, 273-9. 2. Solit, D.B. et al. (2002) <i>Clin Cancer Res</i> 8, 986-93.

Cross-Reactivity Key **H:** human **M:** mouse **R:** rat **Hm:** hamster **Mk:** monkey **Vir:** virus **Mi:** mink **C:** chicken **Dm:** D. melanogaster
X: Xenopus **Z:** zebrafish **B:** bovine **Dg:** dog **Pg:** pig **Sc:** S. cerevisiae **Ce:** C. elegans **Hr:** horse
GP: Guinea Pig **Rab:** rabbit **All:** all species expected

Trademarks and Patents Cell Signaling Technology is a trademark of Cell Signaling Technology, Inc.
All other trademarks are the property of their respective owners. Visit [cellsignal.com/trademarks](https://www.cellsignal.com/trademarks) for more information.

Limited Uses Except as otherwise expressly agreed in a writing signed by a legally authorized representative of CST, the following terms apply to Products provided by CST, its affiliates or its distributors. Any Customer's terms and conditions that are in addition to, or different from, those contained herein, unless separately accepted in writing by a legally authorized representative of CST, are rejected and are of no force or effect.

Products are labeled with For Research Use Only or a similar labeling statement and have not been approved, cleared, or licensed by the FDA or other regulatory foreign or domestic entity, for any purpose. Customer shall not use any Product for any diagnostic or therapeutic purpose, or otherwise in any manner that conflicts with its labeling statement. Products sold or licensed by CST are provided for Customer as the end-user and solely for research and development uses. Any use of Product for diagnostic, prophylactic or therapeutic purposes, or any purchase of Product for resale (alone or as a component) or other commercial purpose, requires a separate license from CST. Customer shall (a) not sell, license, loan, donate or otherwise transfer or make available any Product to any third party, whether alone or in combination with other materials, or use the Products to manufacture any commercial products, (b) not copy, modify, reverse engineer, decompile, disassemble or otherwise attempt to discover the underlying structure or technology of the Products, or use the Products for the purpose of developing any products or services that would

compete with CST products or services, (c) not alter or remove from the Products any trademarks, trade names, logos, patent or copyright notices or markings, (d) use the Products solely in accordance with CST Product Terms of Sale and any applicable documentation, and (e) comply with any license, terms of service or similar agreement with respect to any third party products or services used by Customer in connection with the Products.